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Mineralogy. By EDWARD S. DANA, Professor of Physics and Curator of Mineralogy, Yale University. New York, John Wiley & Sons. New Edition. Cloth. 8vo. Pp. viii + 593. Price, \$4.00.

The text-book of mineralogy, first issued by Professor E. S. Dana in 1877, has passed through some 17 editions, each a revision of those preceding, the changes hitherto being either corrections or the insertion of supplementary chapters. The edition just issued is essentially a new work, entirely rewritten and considerably enlarged.

The descriptive mineralogy is an abridgement of the sixth edition of the author's System of Mineralogy and needs no comment.

Nearly one-half of the book is devoted to Crystallography and Physical Mineralogy. In crystallography there are especially to be noted the complete replacement of the formerly used Naumann methods of calculation by those of Miller, and the abandonment of the old conception of hemihedrism. The crystals are described under thirty-two symmetry groups, as in Groth, Liebisch and others, and it is perhaps to be regretted that these groups have been renamed for prominent forms, type minerals, or to suggest terms of hemihedrism.

In Physical Mineralogy the optical characters are discussed in considerable detail upon the undulatory theory, no assumption, however, being made as to the elasticity of the ether in crystals, although for convenience the symbols a , b , c , formerly denoting axes of elasticity, are retained as so-called 'ether axes.' Very little space is devoted to apparatus or manipulation. It may be noted also that for the determination of the indices of refraction by total reflection, not only the sections cut normal to the acute bisectrix, as stated, but any section parallel to one of the ether axes a , b or c suffices. It may also be questioned if the stauroscopic methods, p. 221, are in any case either as convenient or more accurate than the microscopic.

Cohesion and Elasticity are concisely discussed, but the space devoted to thermal electrical and magnetic characters, about six pages, is regrettably small.

The work is well printed and illustrated with about 1,000 excellent cuts. An admirable point

is the list of selected references at the end of each subject. In every way the work is an improvement upon the last edition.

A. J. M.

SCIENTIFIC JOURNALS.

THE addresses of Professor George E. Hale, on 'The Functions of Large Telescopes' and of Professor Frank P. Whitman on 'Color Vision,' published in the issues of this JOURNAL for May 13th and September 9th respectively, and the paper by Dr. Charles F. Brush on 'A New Gas,' published on October 14th, have been translated into French and printed as leading articles in recent numbers of the *Revue Scientifique*. Professor E. E. Barnard's address on the 'Development of Astronomical Photography' has been translated into German from the issues of this JOURNAL for September 16th and 23d, and published in the *Naturwissenschaftliche Rundschau* for November 26th and December 2d and 9th.

Natural Science will hereafter be published by Mr. Young J. Pentland, 11 Leviot Place, Edinburgh. *Natural Science* has been edited anonymously and this policy will apparently be continued. The current number says: "There will be no change in the policy of the review, no break in continuity, and no lowering of the standard hitherto set before it. But those who wish well to the future of this journal should remember that it lies with them to see that it has a future. Editors cannot edit unless there are contributions of articles, notes and news; publishers cannot publish if every reader reads the copy of a friend or of a library." It may be remarked that publishers and editors are subject to the same conditions in America as in Great Britain.

SOCIETIES AND ACADEMIES.

NEW YORK ACADEMY OF SCIENCES—SECTION OF BIOLOGY—MEETING OF NOVEMBER 14.

THE resignation of Professor E. B. Wilson was read and accepted by the Section. Professor Frederic S. Lee was unanimously elected Chairman of the Section.